

**IN THE CLAIMS**

Please cancel claims 1-10 and add new claims 11-16 as follows:

--11. (New) A gas turbine in which a rotor shaft comprises a plurality of discs each having a plurality of moving blades arranged annularly on the peripheral portion, and spacers arranged between said discs, said respective discs and spacers being arranged in an axial direction in turn, comprising:

gap portions formed between rotor axis side regions of said discs facing said spacers and adjacent spacers;

a supply flow path for supplying refrigerant for cooling to said moving blades and a recovery flow path for recovering heated refrigerant, each of said supply and recovery flow paths being provided in said rotor shaft;

a flow path for introducing fluid into said gap portions, provided in said discs;

wherein said recovery flow path is arranged on a more radially inner side than said supply flow path.

12. (New) A gas turbine in which a rotor shaft comprises a plurality of discs each having a plurality of moving blades arranged annularly on the peripheral portion, and spacers arranged between said discs, said respective discs and spacers being arranged in an axial direction in turn, comprising:

gap portions formed between rotor axis side regions of said discs facing said spacers and adjacent spacers;

a supply flow path for supplying steam for cooling to said moving blades and a recovery flow path for recovering heated steam, each of said supply and recovery flow paths being provided in said rotor shaft;

a flow path for introducing fluid into said gap portions, provided in said discs;

wherein said recovery flow path is arranged on a more radially inner side than said supply flow path.

13. (New) A gas turbine in which a rotor shaft comprises a plurality of discs each having a plurality of moving blades arranged annularly on the peripheral portion, and spacers arranged between said discs, said respective discs and spacers being arranged in an axial direction in turn, comprising:

gap portions formed between rotor axis side regions of said discs facing said spacers and adjacent spacers;

a supply flow path for supplying steam for cooling to said moving blades and a recovery flow path for recovering heated steam, each of said supply and recovery flow paths being provided in said rotor shaft;

a flow path for introducing fluid into said gap portions, provided in said discs;

wherein said flow path for introducing fluid into said gap portion is constructed so as to be supplied with air extracted from a compressor, and

said recovery flow path is arranged on a more radially inner side than said supply flow path.

14. (New) A gas turbine according to claim 1, wherein said flow path for introducing fluid into said gap portion is arranged on a more radially inner side than said supply flow path.

15. (New) A gas turbine according to claim 1, wherein said flow path for introducing fluid into said gap portion is provided with a flow adjusting mechanism.

16. (New) A gas turbine according to claim 1, wherein the fluid introduced into said gap portions is exhausted therefrom into a gas path of said gas turbine.--